# RADIO SETS AN/GRC-9, AN/GRC-9A, AN/GRC-9X, AN/GRC-9Y, AN/GRC-9AX, AN/GRC-87, AND AN/VRC-34

TM 11–263
TO 31R2–2GRC9–1
CHANGES No. 4

DEPARTMENTS OF THE ARMY
AND THE AIR FORCE
WASHINGTON 25, D.C., *21 December 1961*

TM 11–263 TO 31R2–2GRC9–1, 20 June 1956, is changed as follows:

*Page 3*, paragraph 2. Add subparagraph *d*.

*d*. Any comments concerning omissions and discrepancies in appendix I and appendix II will be prepared on DA Form 2028 and forwarded to Commanding Officer, U.S. Army Signal Materiel Support Agency, ATTN: SIGMS–ML, Fort Monmouth, N.J.

### 2.1. Index of Equipment Publications (Added)

Refer to DA Pam. 310–4 to determine what changes to or revisions of this publication are current.

## APPENDIX I (Added)
## MAINTENANCE ALLOCATION
## RADIO SETS AN/GRC-87; AN/VRC-34

### Section I. INTRODUCTION

### 1. General

*a*. This appendix assigns maintenance functions to be performed on components, assemblies, and subassemblies by the lowest appropriate maintenance echelon.

*b*. Columns in the maintenance allocation chart are as follows:

(1) *Component*. This column shows only the nomenclature or standard item name. Additional descriptive data is included only where clarification is necessary to identify the component. Components, assemblies, and subassemblies are listed in top–down order. That is, the assemblies which are part of a component are listed immediately below that component, and the subassemblies which are part of an assembly are listed immediately below that assembly. Each generation breakdown (components, assemblies, or subassemblies) are listed in disassembly order or alphabetical order.

(2) *Maintenance function*. This column indicates the various maintenance functions allocated to the echelons.

(*a*) *Service*. To clean, to preserve, and to replenish lubricants.

(*b*) *Adjust*. To regulate periodically to prevent malfunction.

*These changes supersede so much of DA Supply Manual SIG 7 & 8-AN/GRC-9, 30 November 1956, including C 1, 5 March 1957, C 2, 4 June 1957, C 3, 14 July 1958, C 4, 29 October 1958, C 5, 18 March 1959, and C 6, 21 February 1961 as pertains to first echelon items.

(c) *Inspect.* To verify serviceability and to detect incipient electrical or mechanical failure by scrutiny.

(d) *Test.* To verify serviceability and to detect incipient electrical or mechanical failure by use of special equipment such as gages, meters, etc.

(e) *Replace.* To substitute serviceable components, assemblies, or subassemblies, for unserviceable components, assemblies, or subassemblies.

(f) *Repair.* To restore an item to serviceable condition through correction of a specific failure or unserviceable condition. This function includes but is not limited to welding, grinding, riveting, straightening, and replacement of parts other than the trial and error replacement of running spare type items such as fuses, lamps, or electron tubes.

(g) *Align.* To adjust two or more components of an electrical system so that their functions are properly synchronized.

(h) *Calibrate.* To determine, check, or rectify the graduation of an instrument, weapon, or weapons system, or components of a weapons system.

(i) *Overhaul.* To restore an item to *completely serviceable* condition as prescribed by serviceability standards developed and published by heads of technical services. This is accomplished through employment of the technique of "inspect and repair only as necessary" (IROAN). Maximum utilization of diagnostic and test equipment is combined with minimum disassembly of the item during the overhaul process.

(j) *Rebuild.* To restore an item to a standard as near as possible to original or new condition in appearance, performance, and life expectancy. This is accomplished through the maintenance technique of complete disassembly of the item, inspection of all parts or components, repair or replacement of worn or unserviceable elements using original manufacturing tolerances and/or specifications and subsequent reassembly of the item.

(3) *1st, 2d, 3d, 4th, 5th echelon* The symbol X indicates the echelon responsible for performing that particular maintenance operation, but does not necessarily indicate that repair parts will be stocked at that level. Echelons higher than the echelon marked by X are authorized to perform the indicated operation.

(4) *Tools required.* This column indicates codes assigned to each individual tool equipment, test equipment, and maintenance equipment referenced. The grouping of codes in this column of the maintenance allocation chart indicates the tool, test, and maintenance equipment required to perform the maintenance function.

(5) *Remarks.* Entries in this column will be utilized when necessary to clarify any of the data cited in the preceding columns.

*c.* Columns in the allocation of tools for maintenance functions are as follows:

(1) *Tools required for maintenance functions.* This column lists tools, test, and maintenance equipment required to perform the maintenance functions.

(2) *1st, 2d, 3d, 4th, 5th echelon.* The dagger (†) symbol in these columns indicates the echelons normally allocated the facility.

(3) *Tool Code.* This column lists the tool code assigned.

## 2. Maintenance by Using Organizations

When this equipment is used by signal services organizations organic to theater headquarters or communication zones to provide theater communications, those maintenance functions allocated up to and including fourth echelon are authorized to the organization operating this equipment.

## Section II. MAINTENANCE ALLOCATION CHART

| (1) PART OR COMPONENT | (2) MAINTENANCE FUNCTION | (3) 1ST ECH. | (4) 2ND ECH. | (5) 3RD ECH. | (6) 4TH ECH. | (7) 5TH ECH. | (8) TOOLS REQUIRED | (9) REMARKS |
|---|---|---|---|---|---|---|---|---|
| RADIO SETS AN/GRC-87; AN/VRC-34 | | | | | | | | |
| | service | X | | | | | | |
| | adjust | | | X | | | 14 | |
| | inspect | | X | | | | 13 | |
| | | | | X | | | 14 | |
| | test | | X | | | | 6,12,13 | |
| | | | | X | | | 2,3,4,7,8,12,14,15 | |
| | | | | | X | | 1,2,5,7,8,9,10,12, 14,15 | |
| | | | | | | X | 1,2,5,7,8,9,10,11, 14,15 | |
| | repair | X | | | | | | Replacement of audio accessories, only no facilities read |
| | | | X | | | | 13 | |
| | align | | | X | | | 2,8,14 | |
| | | | | | X | | 1,2,8,10 | |
| | rebuild | | | | X | | 14,15 | Plug shop facilities |
| ANTENNA AT-101/GRC-9; AT-102/GRC-9 (AN/GRC-87 ONLY) | replace | | X | | | | | |
| | repair | | X | | | | 13,14,15 | |
| BAGS | replace | | X | | | | | |
| | repair | | | | | X | | Sew, shop facilities |
| CORD ASSEMBLIES | replace | | X | | | | | |
| | repair | | | X | | | 14 | |
| DYNAMOTOR, POWER SUPPLY DY-88/GRC-9 | service | X | | | | | | |
| | inspect | | X | | | | 13 | |
| | inspect | | | X | | | 14 | |
| | test | | X | | | | 6 | |
| | | | | X | | | 2,7 | |
| | | | | | X | | 2,7,10 | |
| | replace | | X | | | | | |
| | repair | X | | | | | | Replacement of running spare items only |
| | | | X | | | | | |
| | algin | | | X | | | 2,14 | |
| | | | | | X | | 2,10,14 | |

| (1) PART OR COMPONENT | (2) MAINTENANCE FUNCTION | (3) 1ST ECH. | (4) 2ND ECH. | (5) 3RD ECH. | (6) 4TH ECH. | (7) 5TH ECH. | (8) TOOLS REQUIRED | (9) REMARKS |
|---|---|---|---|---|---|---|---|---|
| AN/GRC-87; AN/VRC-34 (continued) | | | | | | | | |
| DYNAMOTOR | service | X | | | | | | |
| | inspect | | X | | | | 13 | |
| | | | | X | | | 14 | |
| | test | | X | | | | 6 | |
| | | | | X | | | 2,7 | |
| | | | | | X | | 2,7,10 | |
| | replace | | | | X | | | |
| | repair | | | | | X | 14 | Shop facilities |
| | align | | | X | | | 2,14 | |
| | align | | | | X | | 2,10,14 | |
| | rebuild | | | | | X | | Shop facilities |
| FASTENER DZUS | replace | | | X | | | | |
| | repair | | | X | | | 14,15 | Special Dzus tool with equipment |
| FILTER ASSY, ELECTRICAL | replace | | | X | | | | |
| | repair | | | X | | | 14,15 | |
| DYNAMOTOR, POWER SUPPLY DY-105/GRC-9X, DY-105A/GRC-9X, DY-105B/GRC-9X | service | X | | | | | | |
| | inspect | | X | | | | 13 | |
| | inspect | | | X | | | 14 | |
| | test | | X | | | | 6 | |
| | test | | | X | | | 2,7 | |
| | | | | | X | | 2,7,10 | |
| | replace | | X | | | | | |
| | repair | X | | | | | | Replacement of running spare items only |
| | | | X | | | | 13 | |
| | align | | | X | | | 2,14 | |
| | | | | | X | | 2,10,14 | |
| | rebuild | | | | | X | | Shop facilities |
| DYNAMOTOR DY-134/FRC-9X | service | X | | | | | | |
| | inspect | | X | | | | 13 | |
| | inspect | | | X | | | 14 | |
| | test | | X | | | | 6 | |
| | | | | X | | | 2,7 | |
| | | | | | X | | 2,7,10 | |
| | replace | | | | X | | | |
| | repair | | | | | X | 14 | Plus shop facilities |
| | rebuild | | | | | X | | Shop facilities |

| (1) PART OR COMPONENT | (2) MAINTENANCE FUNCTION | (3) 1ST ECH. | (4) 2ND ECH. | (5) 3RD ECH. | (6) 4TH ECH. | (7) 5TH ECH. | (8) TOOLS REQUIRED | (9) REMARKS |
|---|---|---|---|---|---|---|---|---|
| AN/GRC-87; AN/VRC-34 (continued) | | | | | | | | |
| FASTENER, DZUS | replace | | | X | | | | |
| | repair | | | X | | | 14,15 | Plus special DZUS repair tool and with equipment |
| GENERATOR, DIRECT CURRENT G-43/U (AN/GRC-87 ONLY) | replace | | X | | | | | See separate MAC |
| HEADSET, ELECTRICAL H-16/U | replace | X | | | | | | See separate MAC |
| LOUDSPEAKER PERMANENT MAGNET LS-203/U | replace | X | | | | | | See separate MAC |
| MAST BASE MP-65-B | replace | | X | | | | | See separate MAC |
| METER FIELD STRENGTH ME-61/GRC | service | X | | | | | | |
| | adjust | | | X | | | 14 | |
| | inspect | | X | | | | 13 | |
| | | | | X | | | 14 | |
| | test | | X | | | | 6 | |
| | | | | X | | | 6,8 | |
| | replace | | X | | | | | |
| | repair | | X | | | | | Replacement of knobs and knot screws only |
| | | | | X | | | 14 | Plus shop facilities |
| | algin | | | X | | | 8,14 | |
| | rebuild | | | | | X | | Shop facilities |
| MICROPHONE M-52/U | replace | X | | | | | | See separate MAC |
| MOUNTING MT-250/GRC-9 | replace | | X | | | | | |
| | repair | | | X | | | 14,15 | (Rubber plugs and straps) |
| RECEIVER-TRANSMITTER RT-77/GRC-9; RT-77A/GRC-9 | service | X | | | | | | |
| | inspect | | X | | | | 13 | |
| | | | X | | | | 6,12,13 | |
| | | | | X | | | 14 | |
| | | | | X | | | 2,3,4,7,8,12,14,15 | |
| | | | | | X | | 1,2,5,7,8,9,10,12, 14,15 | |
| | | | | | | X | 1,2,5,7,8,9,10,11, 14,15 | |
| | replace | | X | | | | 13 | |
| | repair | X | | | | | | Replcaement of running spare items only No facilities required |
| | repair | | X | | | | 13 | |
| | align | | | X | | | 2,8,14 | |
| | | | | | X | | 1,2,8,10 | |
| CABLE ASSY SPEC PUR ELEC | replace | | X | | | | | |
| | repair | | | X | | | 14,15 | |

## Section III. ALLOCATION OF TOOLS FOR MAINTENANCE FUNCTIONS

| (1) TOOLS REQUIRED FOR MAINTENANCE FUNCTIONS | (2) 1ST ECH | (3) 2ND ECH | (4) 3RD ECH | (5) 4TH ECH | (6) 5TH ECH | (7) TOOL CODE | (8) REMARKS |
|---|---|---|---|---|---|---|---|
| AN/GRC-87; AN/VRC-34 (continued) | | | | | | | |
| AUDIO OSCILLATOR TS-382/U | | | | † | † | 1 | |
| ELECTRONIC MULTIMETER TS-505/U | | | † | † | † | 2 | |
| FREQUENCY METER AN/URM-32 | | | † | | | 3 | |
| POWER SUPPLY PP-1243/U | | | † | | | 4 | |
| FREQUENCY METER AN/URM-79 | | | | † | † | 5 | |
| MULTIMETER AN/URM-105 | | † | | | | 6 | |
| MULTIMETER TS-352/U | | | † | † | † | 7 | |
| SIGNAL GENERATOR AN/URM-25 | | | † | † | † | 8 | |
| OSCILLOSCOPE AN/USM-50 | | | | † | † | 9 | |
| VOLTMETER, METER ME-30A/U | | | | † | † | 10 | |
| TEST SET, ELECTRON TUBE TV-2/U | | | | | † | 11 | |
| TEST SET, ELECTRON TUBE TV-7/U | | † | † | † | | 12 | |
| TOOL EQUIPMENT TK-115/G | | † | | | | 13 | |
| TOOL EQUIPMENT TK-87/U | | | † | † | † | 14 | |
| TOOL EQUIPMENT TK-88/U | | | † | † | † | 15 | |

# APPENDIX II (Added)

# BASIC ISSUE ITEMS LIST

# RADIO SETS AN/GRC-87; AN/VRC-34

## Section I. INTRODUCTION

### 1. Scope

*a.* This appendix lists items supplied for initial operation and for running spares. The list includes tools, accessories, parts, and material issued as part of the major end item. The list includes all items authorized for basic operator maintenance of the equipment. End items of equipment are issued on the basis of allowances prescribed in equipment authorization tables and other documents that are a basis for requisitioning.

*b.* Columns are as follows:

(1) *Source, maintenance, and recoverability code.* Not used

(2) *Federal stock number.* This column lists the 11-digit Federal stock number.

(3) *Designation by model.* The dagger (†) indicates equipment in which the part is used

(4) *Description.* Nomenclature or the standard item name and brief identifying data for each item are listed in this column. When requisitioning, enter the nomenclature and description.

(5) *Unit of issue.* The unit of issue is each unless otherwise indicated and is the supply term by which the individual item is counted for procurement, storage, requisitioning, allowances, and issue purposes.

(6) *Expendability.* Nonexpendable items are indicated by NX. Expendable items are not annotated.

(7) *Quantity authorized.* Under "items comprising an operable equipment," the column lists the quantity of items supplied for the initial operation of the equipment. Under "running spares and accessory items," the quantities listed are those issued initially with the equipment as spare parts. The quantities are authorized to be kept on hand by the operator for maintenance of the equipment.

(8) *Illustration.* The "Item No." column lists the reference designations that appear on the part in the equipment. These same designations are also used on any illustrations of the equipment. The numbers in the "Figure No." column refer to the illustrations where the part is shown.

### 2. References

Additional instructions concerning maintenance of this equipment are contained in:

Technical Manual:

TM 11–5122, Direct Current Generator G–43/G.

Operator and Organizational Maintenance Repair Parts and Special Tools List and Maintenance Allocation Chart:

TM 11–5820–479–12P, Mast Base, MP-65, MP-65A, and MP-65B.

Operator, Organizational, Field and Depot Maintenance Repair Parts and Special Tools List and Maintenance Allocation Chart.

TM 11–5965–215–15P, Microphone M–52/U, M–52A/U.

SIG 7 & 8

Headset, Electrical H–16/U.

Maintenance Repair Parts and Special Tools List, and Maintenance Allocation Chart:

TM 11 – 5965 – 213 – 15P. Permanent Magnet Loudspeaker LS–203/U (including LS–7 and LS–7A).

# Section II. FUNCTIONAL PARTS LIST (AN/GRC-87)

| (1) SOURCE MAINTENANCE AND RECOVERABILITY CODE | (2) FEDERAL STOCK NUMBER | (3) DESIGNATION BY MODEL | (4) DESCRIPTION | (5) UNIT OF ISSUE | (6) EXPENDABILITY | (7) QUANTITY AUTHORIZED | (8) ILLUSTRATIONS FIGURE NO | (9) ILLUSTRATIONS ITEM NO |
|---|---|---|---|---|---|---|---|---|
| | 5820-543-1997 | | RADIO SET AN/GRC-87: ground version, 2 to 12 mc freq range; 3 bands; 6 channels | | NX | | | |
| | | | ITEMS COMPRISING AN OPERABLE EQUIPMENT | | | | | |
| | Ord thru AGC | | TECHNICAL MANUAL TM11-263 (Not installed) | | | 2 | | |
| | 5820-243-0432 | | ANTENNA, AT-101/GRC-9: fixed type; 8 sect; 4.3 to 12 mc freq range; 107 ft 6 in lg o/a (NOTE: stored on RL-29 when not in use) (Not installed) | | NX | 1 | 5 | |
| | 5820-243-1413 | | ANTENNA AT-102/GRC9: fixed type; 9 sect; 2 to 4.3 mc; 137 ft lg o/a w/provisions for shorting as required (NOTE: stored on RL-29 when not is use) (Not installed) (Not mounted) | | NX | 1 | 5 | |
| | 5820-308-5817 | | BAG CW-140/GRC-9: for carrying Receiver and Transmitter RT-77/GRC-9 wp canvas; 14 in lg x 14 in w x 16 in h (Not installed) (Not mounted) | | | 1 | 19 | |
| | 5820-690-8541 | | BAG, COTTON DUCK, CW-419/GRC-9: 65-1/2 in lg by 33 in w w/approx dim opened; 4 flap type and fixed type pockets: Sig dwg SC-DL-31963 (NOTE: Replaces Roll BG-174 in AN/GRC-9) (Not installed) (Not mounted) | | | 1 | | |
| | 6115-709-0463 | | BAG, CW-420/G: for generator; 15-1/2 in lg x 6-1/2 in w x 11-3/4 in h o/a olive drab water repellent Sig dwg No. SC-DL-17336 (Not mounted) | | | 1 | | |
| | 6135-669-6632 | | BATTERY, DRY BA-317/U: NOTE: Stored in Bag CW-140/GRC-9 (Not installed) OR | | | 1 | | |
| | 6135-120-1007 | | BATTERY, DRY BA-48: NOTE: Stored in Bag CW-140/GRC-9 | | | 1 | | |
| | 5820-129-9666 | | BRACKET FT-515: used to mount insulator in -127 6-1/2 in lg x 1 in wd x 1/8 in thk; Sig dwg SC-D-19573 NOTE: Stored in accessories Bag (Not installed) | | | 1 | 5 | |
| | 5820-701-9097 | | CASE, ACCESSORIES BX-53-D: 6-1/2 in lg x 6 in w x 2-1/2 in h; carries spares lamps, tubes and misc items; NOTE: Stored in accessories bag (Not installed) (Not mounted) | | NX | 1 | 7 | |
| | 5995-196-9564 | | CORD ASSEMBLY CD-307-B: (65 in) 22 awg; 5 ft 10-13/32 in lg o/a; MIL-C-3884; type ne COS-2(22) MIL STD MS-35760 NOTE: Stored in accessories bag (Not installed) | | | 1 | | |
| | 5995-164-6457 | | CORD ASSEMBLY, CD-1086 (7 ft): MIL-C-3432 Sig dwg SC-D-22829 NOTE: Stored in accessories bag (Not installed) | | | 2 | 23 | |
| | 5995-162-6946 | | CORD ASSEMBLY, CD-1119 (36 in): 18 awg; 3 ft 2 in lg o/a; Sig dwg SC-C-26551 NOTE: Stored in accessories bag (Not installed) (Not mounted) | | | 1 | 41 | |
| | 5820-237-7321 | | COUNTERPOISE CP-12; radial type; Sig dwg SC-D-1038F; (NOTE: Stored on RL-29 when not in use) (Not installed) (Mounted in equip) | | NX | 1 | 5 | |
| | 5820-224-4885 | | COUNTERPOISE CP-13: radial type Sig dwg SC-D-1038 (NOTE: Stored on RL-29 when not in use) (Not installed) (Mounted in equip) | | NX | 1 | 5 | |
| | 5965-243-0207 | | COVER, MICROPHONE CW-292-W: 1.218 in lg x 0.671 in h x 0.605 in dia; polyethylene spec MIL-H-11190 NOTE: Stored in accessories bag (Mounted in equip) | | | 1 | | |

| (1) SOURCE MAINTENANCE AND RECOVERABILITY CODE | (2) FEDERAL STOCK NUMBER | (3) DESIGNATION BY MODEL | (4) DESCRIPTION | (5) UNIT OF ISSUE | (6) EXPENDABILITY | (7) QUANTITY AUTHORIZED | (8) ILLUSTRATIONS | (9) |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | FIGURE NO | ITEM NO |
| | | | AN/GRC-87; AN/VRC-34 (continued) | | | | | |
| | 6125-635-3770 | | DYNAMOTOR, POWER SUPPLY DY-105/GRC-9X; DY-105A/GRC-9X, DY-105B/GRC-9X; for 24 v DC input operation only; Sig dwg SC-DL-177015 NOTE: For 6 or 12 installation substitute Dynamotor Power Supply DY-88/GRC-9 for Dynamotor Power Supply DY-105/GRC-9X, DY-105A/GRC-9X, DY-105B/GRC-9X (Not mounted) OR | | NX | 1 | 12 | |
| | 6125-321-5928 | | DYNAMOTOR, POWER SUPPLY DY-88/GRC-9: for 6v, 12v or 24v, DC input operation; NOTE: for 6v or 12v installation may be issued in liew of DY-105/GRC-9X when DY-105A/GRC-9X is not available for issue (Not installed) (Not mounted) | | NX | 1 | 11 | |
| | 6115-501-0611 | | GENERATOR, G-43/G; hand gen; power output, 425 v at 115 ma, 105 v at 32 ma, 6.3 v at 2.5 amp, 1.4 v at 0.465 amp, HV 8% variance, LV 2% variance, 50 to 70 rpm; Sig dwg SM-D-202177 NOTE: Stored in Bag CW-420/G when not in use (Not installed) | | NX | 1 | | |
| | 5975-197-4252 | | GUY GY-12: ant mast guy; 20 ft lg; Sig dwg SC-D-1072 NOTE: Stored in accessories bag (Not installed) | | | 1 | 5 | |
| | 5975-199-5072 | | GUY GY-42: used w/mast sect; 2 lgth 20 ft lg; Sig dwg SC-D-15884 NOTE: Stored in accessories bag (Not installed) | | | 1 | 5 | |
| | 5820-498-9361 | | HALYARD, M-378: braided cotton; 9/16 in dia, 80 ft lg; NOTE: Stored in accessories bag (Not installed) | | | 1 | 5 | |
| | 5820-408-3197 | | HALYARD M-379 in: braided cotton, 9/64 in dia 10 ft 6 in lg; Sig dwg SC-C-35483 NOTE: Stored in accessories bag (Not installed) | | | 1 | 5 | |
| | 5965-162-7931 | | HEADSET, ELECTRICAL H-17U: magnetic, 8000 ohm impedance, Sig dwg SC-D-14618 NOTE: Stored in accessories bag (Not installed) | | NX | 1 | | |
| | 5970-227-8226 | | INSULATOR IN-127: cylindrical; molded phenolic; 12-21/32 in lg; Sig dwg SC-DL-35528 NOTE: Stored in accessories bag (Not installed) | | | 1 | 41 | |
| | 5970-197-3576 | | INSULATOR, STRAIN IN-86: Sig dwg SC-D-1134 NOTE: Stored in accessories bag (Not installed) | | | 1 | | |
| | 5805-171-3370 | | KEY J-45: 5-1/2 in lg x 4-1/4 in wd x 6 in h Sig dwg SC-D-1059 NOTE: Stored in accessories bag (Not installed) | | | 1 | 5 | |
| | 5965-280-3800 | | LOUDSPEAKER LS-203/U: LS-7A; blast proof type; PM field, 8 ohm voice coil, Sig dwg SC-DL-6420 NOTE: Stored in accessories bag (Not installed) | | NX | 1 | | |
| | 5820-503-2953 | | MAST BASE MP-65-B: Sig dwg SC-D-20718 NOTE: Stored in accessories bag (Not installed) | | NX | 1 | | |
| | 5820-199-8131 | | MAST SECTION MS-116A: 39-1/2 in lg x 0.393 dia; Sig SC-DL-100588-MS116A NOTE: Stored in accessories bag CW-419/G (Not installed) | | | 3 | 23 | |

| (1) SOURCE MAINTENANCE AND RECOVERABILITY CODE | (2) FEDERAL STOCK NUMBER | (3) DESIGNATION BY MODEL | (4) DESCRIPTION | (5) UNIT OF ISSUE | (6) EXPENDABILITY | (7) QUANTITY AUTHORIZED | (8) ILLUSTRATIONS | (9) |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | FIGURE NO | ITEM NO |
| | | | AN/GRC-87; AN/VRC-34 (continued) | | | | | |
| | 5820-199-8843 | | MAST SECTION MS-117/A:39-1/2 in lg x 0373 dia; Sig dwg SC-D-12521 NOTE: Stored in accessories bag CW-419/G (Not installed) | | | 1 | 23 | |
| | 5820-199-8841 | | MAST SECTION MS-118/A: 39-1/2 in lg x 0.246 in dia; Sig dwg SC-D-12521 NOTE: Stored in accessories bag CW-419/G (Not installed) | | | 1 | 23 | |
| | 6625-701-9103 | | METER FIELD STRENGTH ME-61/GRC: 6 in lg x 5 1/2 in w x 5 in h o/a NOTE: Stored in accessories bag (Not installed) | | NX | 1 | 13.1 | C3 |
| | 5965-646-4678 | | MICROPHONE, CARBON M-52/U: 40 to 1000 ohms at 1000 cps; MIL Spec No. MIL-M-11193B w/anend No. 4 NOTE: Stored in accessories bag (Not installed) | | NX | 1 | | |
| | 5820-128-2207 | | MOUNTING MT-350/GRC-9: 16-5/8 in lg x 11-9/16 in wd x 1 5/8 in h; Sig dwg SC-C-20701 (Not installed) | | | 1 | 4 | |
| | 5820-196-9041 | | RECEIVER-TRANSMITTER RT-77/GRC-9, RT-77A/GRC-9: vehicular, transportable; xmtr output 25 w cw, 8.5 phone; 2 to 12 mc in 3 bands; 16-1/2 in lg x 12-1/2 in w x 8 in h o/a; Sig Spec No. 271-3213; Sig dwg SC-DL-57596 (Not installed) | | NX | 1 | 4 | |
| | 8130-355-7616 | | REEL RL-28: for Guy-11 Guy-12; 6-1/2 in lg x 2 3/4 in w x 0.747 in thk; Sig dwg SC-D-1064 NOTE: Stored in accessories bag (Not installed) | | | 1 | 5 | |
| | 5820-030-2969 | | REEL RL-29; for sig counterpoise CP-12 and CP-13; 11-1/2 in lg x 5 1/2 in wd Sig dwg SC-D-1040 NOTE: Stored in accessories bag (Not installed) | | | 3 | | |
| | 4020-240-2145 | | ROPE RP-5: cotton core, 12 strands 3/16 in dia 255 lbs min braking strength; NOTE: Stored in accessories bag (Not installed) | ft | | 25 | | |
| | 4130-223-4612 | | STAKE, GUY GP-27B: anchors guy; 7-9/16 in lg x 5/16 in dia Sig dwg No. SC-D-1063 NOTE: Stored in accessories bag (Not installed) | | | 4 | 23 | |
| | 6145-160-5114 | | WIRE W-128: single No. 14 AWG cond, stranded, forty-one No. 30 AWG strands NOTE: Stored in accessories bag (Not installed) | ft | | 10 | 5 | |

| (1) SOURCE MAINTENANCE AND RECOVERABILITY CODE | (2) FEDERAL STOCK NUMBER | (3) DESIGNATION BY MODEL | (4) DESCRIPTION | (5) UNIT OF ISSUE | (6) EXPENDABILITY | (7) QUANTITY AUTHORIZED | (8) ILLUSTRATIONS FIGURE NO | (9) ILLUSTRATIONS ITEM NO |
|---|---|---|---|---|---|---|---|---|
| | | | AN/GRC-87; AN/VRC-34 (continued) | | | | | |
| | 5820-543-1996 | | RADIO SET AN/VRC-34: vehicular version, 2 to 12 mc freq range; 3 bands, 6 channels | | NX | | | |
| | Ord thru AGC | | TECHNICAL MANUAL TM-11-263 (Not installed) | | | 2 | | |
| | 5820-690-8541 | | BAG, COTTON DUCK CW-419/GRC-9: 65-1/2 in lg by 33 in w; w/approx dim opened; 4 flap type and fixed type pockets; Sig dwg SC-DL-34963 (Not installed) | | NX | 1 | | |
| | 5820-701-9097 | | CASE ACCESSORIES BX-53-D: 6-1/2 in lg x 6 in w x 2-1/2 in h; carries spare lamps, tubes and misc items Sig dwg SC-DL-74923 NOTE: Stored in accessories (Not installed) | | NX | 1 | 7 | |
| | 5995-196-9564 | | CORD ASSEMBLY CD-307-B (65 in): 22 AWG; 5 ft 10-13/32 lg oa; MIL-C-3884 type No. COS-2(22) MIL STD-MS-35760 NOTE: Stored in accessories bag when not in use (Not installed) | | | 1 | | |
| | 5995-164-6457 | | CORD ASSEMBLY, CD-1086 (7ft): MIL-C-3432 Sig dwg SC-D-22829 NOTE: Stored in accessories bag when not in use (Not installed) | | | 1 | 23 | |
| | 5965-242-0207 | | COVER MICROPHONE CW-292-W: 1-2/8 in x 0.671 in h x 0.605 dia, polyethlene NOTE: Stored in accessories bag when not in use (Not installed) | | | 1 | | |
| | 6125-635-3770 | | DYNAMOTOR, POWER SUPPLY DY-105/GRC-9X, DY-105A/GRC-9X, DY-105B/GRC-9X: for 24 v DC input operation only: Sig dwg SC-DL-117015 NOTE: For 6 v or 12 v installation substitute Dynamotor Power Supply DY-88/GRC-9 for Dynamotor Power Supply Dynamotor Power Supply DY-105/GRC-9X, DY-105A/GRC-9X, DY-105B/GRC-9X OR | | NX | 1 | 12 | |
| | 6125-321-5928 | | DYNAMOTOR, POWER SUPPLY DY-88/GRC-9: f/ 6v, 12v or 24v DC input operation: NOTE: For 6v or 12v installation may be issued in lieu of DY-105/GRC-9X when DY-105A/GRC-9X is not available for issue (Not installed) | | NX | 1 | 11 | |
| | 5965-162-7931 | | HEADSET, ELECTRICAL H-16/U: magnetic, 8000 ohm impedance, Sig dwg SC-D-14618 NOTE: Stored in accessories bag when not in use (Not installed) | | NX | 1 | | |
| | 5970-197-3576 | | INSULATOR, STRAIN IN-86: Sig dwg SC-D-1134 NOTE: Stored in accessories when not in use (Not installed) | | | 1 | | |
| | 5805-171-3370 | | KEY J-45: 5-1/2 in lg x 4-1/2 in w x 6 in h; Sig dwg SC-D-1059 NOTE: Stored in acess bag when not in use (Not installed) | | | 1 | 5 | |
| | 5965-280-3800 | | LOUDSPEAKER LS-203/U: LS-7A; blast proof type; PM field, 8 ohm voice coil, Sig dwg SC-DL-6420 NOTE: Stored in accessories bag when not in use (Not installed) | | NX | 1 | | |
| | 5820-503-2953 | | MAST BASE MP-65-B Sig dwg SC-D-20718 NOTE: Stored in accessories bag when not in use (Not installed) | | NX | 1 | | |
| | 5820-199-8131 | | MAST SECTION MS-116A: 39 1/2 in lg x 0.393 dia Sig dwg No. SC-DL-100588 MS 116A NOTE: Stored in accessories bag CW-419/G when not in use (Not installed) | | | 3 | 23 | |
| | 5820-199-8843 | | MAST SECTION MS-117/A: 39 1/2 in lg x 0.373 dia; Sig dwg SC-D-12521 NOTE: Stored in accessories bag CW-419/G when not in use (Not installed) | | | 1 | 23 | |

| (1) SOURCE MAINTENANCE AND RECOVERABILITY CODE | (2) FEDERAL STOCK NUMBER | (3) DESIGNATION BY MODEL | (4) DESCRIPTION | (5) UNIT OF ISSUE | (6) EXPENDABILITY | (7) QUANTITY AUTHORIZED | (8) ILLUSTRATIONS FIGURE NO | (9) ILLUSTRATIONS ITEM NO |
|---|---|---|---|---|---|---|---|---|
| | | | AN/GRC-87; AN/VRC-34 (continued) | | | | | |
| | 5820-199-8841 | | MAST SECTION MS-118A: 39 1/2 in lg x 0.246 in dia; Sig dwg SC-D-12521 NOTE: Stored in accessories bag CW-419/G when not in use (Not installed) | | | 1 | 23 | |
| | 6625-701-9103 | | METER FIELD STRENGTH ME-61/GRC: 6 in lg x 5 1/2 in w x 5 in h o/a; NOTE: Stored in accessories bag when not in use (Not installed) | | NX | 1 | 13.1 | C3 |
| | 5965-646-4678 | | MICROPHONE, CARBON M-52; 40 to 1000 ohms, at 1000 cps NOTE: Stored in accessories bag when not in use (Not installed) | | NX | 1 | | |
| | 5820-128-2207 | | MOUNTING MT-350/GRC-9: 16-5/8 in lg x 11-9/16 in w d x 1 5/8 in h; Sig dwg SC-C-20701 (Not installed) | | | 1 | 4 | |
| | 5820-196-9041 | | RECEIVER-TRANSMITTER RT-77/GRC9, RT-77A/GRC-9: vehicular, transportable; xmtr output 25 WCW 8.5 phone; 2 to 10 mc in 3 bands; 16-1/2 in lg x 12-1/2 in wd x 8 in h o/a; Sig Spec No. 271-3213 Sig dwg SC-DL-575996 (Not installed) | | NX | 1 | 4 | |
| | 4020-240-2145 | | ROPE RP-5: cotton core, 12 strands 3/16 in dia 255 lbs min braking strength NOTE: Stored in accessories bag when not in use (Not installed) | ft | | 25 | | |
| | 6145-160-5114 | | WIRE W-128: single No. 14 AWG cond, stranded, forty one No. 30 AWG strands NOTE: Stored in accessories bag when not in use (Not installed) | ft | | 10 | 5 | |
| | | | GROUP I<br>DYNAMOTOR, POWER SUPPLY<br>DY-88/GRC-9 | | | | | |
| | | | DYNAMOTOR, POWER SUPPLY DY-88/GRC-9 (BASIC COMPONENT) (Not installed) | | | 1 | 11 | |
| | 5995-280-4264 | | CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL CX-2031A/U (8ft): uses cord CO-212 (Not installed) | | | 1 | 11 | |
| | 6125-219-9988 | | HARDWARE KIT: for mtg DY-88/GRC-9 to vehicle (in cloth bag) | | | 1 | | |
| | | | GROUP II<br>DYNAMOTOR, POWER SUPPLY<br>DY-105/GRC-9X; DY-105A/GRC-9X; DY-105B/GRC-9X | | | | | |
| | | | DYNAMOTOR, POWER SUPPLY DY-105/GRC-9X, DY-105A/GRC-9X, DY-105B/GRC-9X; (BASIC COMPONENT) (Not installed) | | | 1 | 12 | |
| | 6125-324-9039 | | HARDWARE KIT: f/mtg Dynamotor-Power Supply to vehicle; c/o lockwashers, nuts, bolts in cloth bag; Amictool No. 25095 (in cloth bag) | | | 1 | | |
| | 5995-280-4264 | | CABLE ASSEMBLY SPECIAL PURPOSE, ELECTRICAL: CX-2031A/U: (8 ft) uses cordage CO-212 (Not installed) | | | 1 | 12 | |

| (1) SOURCE MAINTENANCE AND RECOVERABILITY CODE | (2) FEDERAL STOCK NUMBER | (3) DESIGNATION BY MODEL | | (4) DESCRIPTION | (5) UNIT OF ISSUE | (6) EXPENDABILITY | (7) QUANTITY AUTHORIZED | (8) ILLUSTRATIONS | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | FIGURE NO | ITEM NO |
| | | 1 | 2 | AN/GRC-87; AN/VRC-34 (continued) | | | | | |
| | | | | GROUP III<br>RECEIVER TRANSMITTER<br>RT-77/GRC-9; RT-77A/GRC-9 | | | | | |
| | 5995-170-6877 | | | CABLE ASSEMBLY SPECIAL PURPOSE ELECTRICAL: interconnects Rec-xmtr; 23-1/8 in lg approx SC-C-35501 (Installed in equip) | | | 1 | 30 | |
| | 5820-545-8234 | | | CABINET: houses rec and xmtr; 15-1/2 in lg x 10-1/2 in wd x 4 9/32 in d approx o/a Sig dwg SC-D-35818 (Not installed) | | | 1 | 29 | |
| | 6135-271-0407 | | | BATTERY DRY, BA-1293/U: grid bias fv6 p/o rec (Not installed) (Not mounted) | | | 1 | | |
| | 5820-691-2059 | | | PANEL, COVER CW-109/GRC: water tight metal cover f/RT-77(*)/GRC-9; 11-1/2 in lg x 16-1/2 in wd w/3 in fl (Mounted in equip) | | | 1 | 29 | |
| | 5820-537-3904 | | | RECEIVER, RADIO: part of RT-77/GRC-9; RT-77A/GRC-9: 10-1/2 in lg x 5-1/8 in h x 6-1/2 in d o/a | | | 1 | 30 | |
| | 5825-309-3200 | | | TRANSMITTER, RADIO: part of RT-77/GRC-9; RT-77A/GRC-9; 10-5/8 in lg x 10-3/8 in wd x 6-1/2 in d o/a (Installed in case) | | | 1 | 30 | |
| | | | | RUNNING SPARES AND ACCESSORY ITEMS | | | | | |
| | | | | RADIO SET AN/GRC-87 AND AN/VRC-34 | | | | | |
| | | | | NOTE: Model Column 1 refers to AN/GRC-87; Column 2 refers to AN/VRC-34 | | | | | |
| | 5820-243-0432 | † | | ANTENNA, AT-101/GRC-9: fixed type; 8 sect; 4.3 to 12 mc freq range; 107 ft 6 in lg o/a; NOTE: Stored in bag CW-419 | | NX | 1 | 5 | |
| | 5970-197-3576 | † | † | INSULATOR, STRAIN IN-86: Sig dwg SC-D-1134 NOTE: Stored in Bag CW-419/G | | | 2 | | |
| | 5820-199-8131 | † | † | MAST SECTION MS-116A: 39 1/2 in lg x 0.393 dia; Sig dwg SC-DL-100588 NOTE: Stored in bag CW-419/G | | | 3 | 23 | |
| | 5820-199-8843 | † | † | MAST SECTION MS-117-A: 39 1/2 in lg x 0373 dia; Sig dwg No. SC-D-12521 NOTE: Stored in bag CW-419/G | | | 1 | 23 | |
| | 5820-199-8841 | † | † | MAST SECTION MS-118-A: 39 1/2 in lg x 0.246 in dia; Sig dwg SC-D-12521 NOTE: Stored in bag CW-419/G | | | 1 | 23 | |
| | | | | DYNAMOTOR, POWER SUPPLY<br>DY-88/GRC-9 | | | | | |
| | 5977-284-9428 | | | BRUSH SET, ELECTRICAL CONTACT: LV 6v + and -; Sig dwg SC-D-99877-73 (NOTE: stored in spare parts box on chassis of dynamotor) | | | 1 | | |
| | | | | | | | | | |

| (1) SOURCE MAINTENANCE AND RECOVERABILITY CODE | (2) FEDERAL STOCK NUMBER | (3) DESIGNATION BY MODEL | (4) DESCRIPTION | (5) UNIT OF ISSUE | (6) EXPENDABILITY | (7) QUANTITY AUTHORIZED | (8) ILLUSTRATIONS FIGURE NO | (9) ILLUSTRATIONS ITEM NO |
|---|---|---|---|---|---|---|---|---|
| | | | AN/GRC-87; AN/VRC-34 (continued) | | | | | |
| | 5977-284-9426 | | BRUSH SET, ELECTRICAL CONTACT: LV 12v and 24v; grade KGX; Sig dwg SC-D-99877-79 (NOTE: Stored in spare parts box on chassis of dynamotor) | | | 2 | | |
| | 5977-284-9430 | | BRUSH SET, ELECTRICAL CONTACT: HV + and - brushes; 580v; Sig dwg SC-D-99877-83 (NOTE: Stored in spare parts box on chassis of dynamotor) | | | 1 | | |
| | 5920-280-8604 | | FUSE, CARTRIDGE: 2 amp MIL type FO8G2R00B; use for 12v or 24v operation only (NOTE: Stored in spare fuse holder on front panel) OR | | | 5 | | |
| | 5920-280-3171 | | FUSE, CARTRIDGE: 5 amp type FO8D5R00A (use for 6 volt operation only) (NOTE: Stored in spare fuse holder on front panel) | | | 3 | | |
| | 5920-280-3157 | | FUSE, CARTRIDGE: 10 amp 32v; Buss type MDR-10-D-E (NOTE: Stored in spare fuse holder on front panel) | | | 3 | | |
| | 5920-399-7760 | | FUSE, CARTRIDGE: 20 amp 32v; Buss type MDR-20-DE (NOTE: Stored in spare fuse holder on front panel) | | | 3 | | |
| | 5920-280-3177 | | FUSE, CARTRIDGE: 30 amp, 32v; Buss type MRD-30-D-E (NOTE: Stored in spare fuse holder on front panel) | | | 3 | | |
| | 5905-283-5772 | | RESISTOR, CURRENT REGULATING: Amperite type 5TF4; (NOTE: Mtd in spare socket on chassis) (Mounted in equip) | | | 1 | 141 | |
| | 5905-283-5773 | | RESISTOR, CURRENT REGULATING: Amperite type No. 10-4A; (NOTE: Mtd in spare socket on chassis) | | | 1 | 141 | |
| | 6130-235-0997 | | VIBRATOR, SYNCHRONOUS: input 6V DC 4.3 amp; Sig dwg SC-D-40682 (NOTE: Mtd in spare socket on chassis) | | | 1 | 141 | |
| | | | DYNAMOTOR, POWER SUPPLY DY-105/GRC-9X; DY-105A/GRC-9X; DY-105B/GRC-9X | | | | | |
| | 5977-284-9426 | | BRUSH, ELECTRICAL CONTACT: c/o 2 brushes LV grade KGX; Sig dwg SC-99877-79 (NOTE: Stored in spare fuse holder mtd on frt panel) (Not mounted) | | | 1 | 157 | |
| | 5977-284-9430 | | BRUSH, ELECTRICAL CONTACT: c/o 2 brushes; HV Sig dwg SC-D-99877-83; (NOTE: Stored in spare fuse holder mtd on frt panel) (Not mounted) | st | | 1 | 157 | |
| | 5920-142-7346 | | FUSE, CARTRIDGE: 3 amp; Buss type AGU-3; (NOTE: Stored in spare fuse holder on frt panel) (Not mounted) | st | | 4 | | |

| (1) SOURCE MAINTENANCE AND RECOVERABILITY CODE | (2) FEDERAL STOCK NUMBER | (3) DESIGNATION BY MODEL | (4) DESCRIPTION | (5) UNIT OF ISSUE | (6) EXPENDABILITY | (7) QUANTITY AUTHORIZED | (8) ILLUSTRATIONS | (9) |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | FIGURE NO | ITEM NO |
| | | | AN/GRC-87; AN/VRC-34 (continued) | | | | | |
| | 5920-280-3157 | | FUSE, CARTRIDGE: 10 amp MIL type F07A10R0B; (NOTE: Stored in spare fuse holder mtd on frt panel) (Not mounted) | | | 4 | | |
| | 5905-283-5772 | | RESISTOR, CURRENT REGULATING: Amperite type 5TF4; (NOTE: Stored in spare parts box in base of DY-105/GRC-9X) (Not mounted) | | | 1 | | |
| | 5905-283-5773 | | RESISTOR, CURRENT REGULATING: Amperite part No. 10-4A (NOTE: Stored in spare parts box in base of DY-105/GRC-9X) (Not mounted) | | | 1 | | |
| | 6130-235-0990 | | VIBRATOR, SYNCHRONOUS: MIL type VB024S01; (NOTE: Stored in spare parts box in base of DY-105/GRC-9X (Not mounted) | | | 1 | | |
| | | | RECEIVER, RADIO (FSN 5820-537-3904) | | | | | |
| | | | NOTE: The following items are stored in Box BX-53-D | | | | | |
| | 5960-100-5130 | | ELECTRON TUBE: type 1L4 (Not mounted) | | | 1 | 7 | |
| | 5960-188-3954 | | ELECTRON TUBE: type 1R5 (Not mounted) | | | 1 | 7 | |
| | 5960-188-3952 | | ELECTRON TUBE: type 1S5 (Not mounted) | | | 1 | 7 | |
| | 5960-188-3540 | | ELECTRON TUBE: type 3Q4 (Not mounted) | | | 1 | 7 | |
| | 6240-155-8683 | | LAMP, INCANDESCENT: 2v, 0.06 amp; min bayonet base; GE No. S-49 (Not mounted) | | | 1 | 7 | |
| | | | TRANSMITTER, RADIO (FSN 5825-309-3200) | | | | | |
| | | | NOTE: The following items are stored in Box BX-53-D | | | | | |
| | 5960-100-5106 | | ELECTRON TUBE: type 0C3 (Not mounted) | | | 1 | 7 | |
| | 5960-114-4885 | | ELECTRON TUBE: type 2E22 (Not mounted) | | | 1 | 7 | |
| | 5960-188-8617 | | ELECTRON TUBE: type 3A4 (Not mounted) | | | 1 | 7 | |
| | 6240-155-8683 | | LAMP, INCANDESENT: 2v, 0.06 amp min bayonet base; GE S49 (Not mounted) | | | 1 | 7 | |
| | 6240-299-6970 | | LAMP, GLOW: GE No. NE-47 (Not mounted) | | | 1 | 7 | |

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*NG:* State AG (3) units—same as Active Army except allowance is one copy to each unit.

*USAR:* None.

For explanation of abbreviations used, see AR 320-50.

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